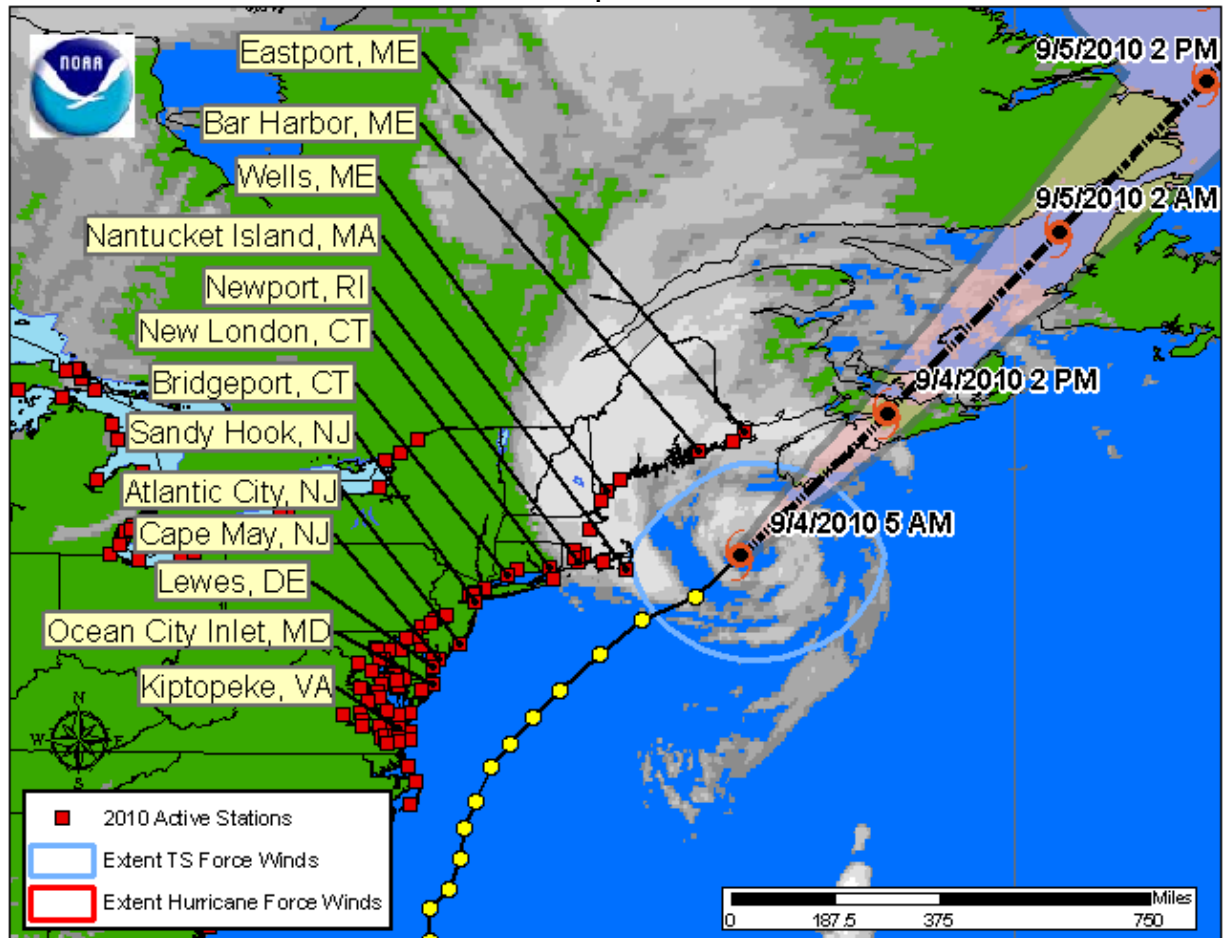




Hurricane EARL QuickLook  
Posted: 06:00 EDT 09/04/2010

NOAA and NOAA Partnership Stations Relative to the Storm



#### Storm Analysis

As of 09/04/2010 06:00 EDT, water levels along the eastern U.S. coastline from Virginia to New Jersey are rising and are elevated between 0.5 and 1.5 feet above predictions. Water levels north of Sandy Hook, NJ to Nantucket are generally falling but elevated approx. 1.5 feet above predictions.

Wind speeds from New London, CT north to Wells, ME are steadily increasing and generally range from 7-20 knots with slightly higher gusts.

Barometric pressure is falling rapidly north of New London, CT, and generally leveling or increasing to the south along the east coast.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

**EASTPORT, ME:** Next predicted high tides are 16.90 ft (5.15 m) at 09/04/2010 07:24 EDT and 18.70 ft (5.70 m) at 09/04/2010 19:49 EDT.

**BAR HARBOR, ME:** Next predicted high tides are 9.62 ft (2.93 m) at 09/04/2010 07:16 EDT and 11.20 ft (3.41 m) at 09/04/2010 19:37 EDT.

**WELLS, ME:** Next predicted high tides are 7.94 ft (2.42 m) at 09/04/2010 07:43 EDT and 9.49 ft (2.89 m) at 09/04/2010 20:03 EDT.

**NANTUCKET ISLAND, MA:** Next predicted high tides are 2.75 ft (0.84 m) at 09/04/2010 08:53 EDT and 3.83 ft (1.17 m) at 09/04/2010 21:08 EDT.

**NEWPORT, RI:** Next predicted high tides are 3.98 ft (1.11 m) at 09/04/2010 16:49 EDT and 3.63 ft (1.21 m) at 09/05/2010 05:24 EDT.

**NEW LONDON, CT:** Next predicted high tides are 2.43 ft (0.74 m) at 09/04/2010 06:12 EDT and 3.23 ft (0.98 m) at 09/04/2010 18:40 EDT.

**BRIDGEPORT, CT:** Next predicted high tides are 6.41 ft (1.95 m) at 09/04/2010 08:01 EDT and 7.41 ft (2.26 m) at 09/04/2010 20:21 EDT.

**SANDY HOOK, NJ:** Next predicted high tides are 5.39 ft (1.64 m) at 09/04/2010 16:44 EDT and 4.73 ft (1.44 m) at 09/05/2010 05:28 EDT.

**ATLANTIC CITY, NJ** Next predicted high tides are 4.90 ft (1.49 m) at 09/04/2010 16:31 EDT and 3.92 ft (1.20 m) at 09/05/2010 05:07 EDT.

**LEWES, DE** Next predicted high tides are 4.96 ft (1.51 m) at 09/04/2010 17:45 EDT and 3.96 ft (1.21 m) at 09/05/2010 06:15 EDT.

**OCEAN CITY INLET, MD** Next predicted high tides are 2.55 ft (0.78 m) at 09/04/2010 17:23 EDT and 2.10 ft (0.64 m) at 09/05/2010 05:27 EDT.

**KIPTOPEKE, VA:** Next predicted high tides are 3.13 ft (0.95 m) at 09/04/2010 17:39 EDT and 2.73 ft (0.95 m) at 09/05/2010 06:11 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For more information or archived products and reports, please see the [Storm\\_QuickLook](#) homepage.

Analyst:LSB

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**SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:**

**TROPICAL STORM EARL ADVISORY NUMBER 40 CORRECTED  
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL**

**500 AM EDT SAT SEP 04 2010**

**CORRECTED LOCATION IN NOVA SCOTIA TO CAPE SABLE**

**SUMMARY OF 500 AM EDT INFORMATION**

**LOCATION**

41.7N 67.1W ABOUT 145 MI SW OF CAPE SABLE NOVA SCOTIA ABOUT 160 MI E OF NANTUCKET MASSACHUSETTS MAXIMUM SUSTAINED WINDS...70 MPH...110 KM/HR PRESENT MOVEMENT...NE OR 45 DEGREES AT 30 MPH...48 KM/HR MINIMUM CENTRAL PRESSURE...965 MB...28.50 INCHES

**WATCHES AND WARNINGS**

**CHANGES WITH THIS ADVISORY...**

THE TROPICAL STORM WARNING HAS BEEN DISCONTINUED FOR MASSACHUSETTS AND ADJACENT ISLANDS.

**SUMMARY OF WATCHES AND WARNINGS IN EFFECT...**

**A HURRICANE WATCH IS IN EFFECT FOR...**

\* NOVA SCOTIA FROM ECUM SECUM WESTWARD TO DIGBY

**A TROPICAL STORM WARNING IS IN EFFECT FOR...**

\* STONINGTON MAINE TO EASTPORT MAINE

\* THE ENTIRE COAST OF NOVA SCOTIA

\* PRINCE EDWARD ISLAND

\* NEW BRUNSWICK FROM THE U.S./CANADA BORDER EASTWARD TO FORT LAWRENCE...AND FROM SHEDIAC TO TIDNISH

\* THE MAGDALEN ISLANDS

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS.PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE. FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE THE UNITED STATES. PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL METEOROLOGICAL SERVICE.

**DISCUSSION AND 48-HOUR OUTLOOK**

AT 500 AM EDT...0900 UTC...THE CENTER OF TROPICAL STORM EARL WAS LOCATED NEAR LATITUDE 41.7 NORTH...LONGITUDE 67.1 WEST. EARL IS MOVING TOWARD THE NORTHEAST NEAR 30 MPH...48 KM/HR...AND A GENERAL NORTHEASTWARD MOTION WITH A GRADUAL INCREASE IN FORWARD SPEED IS EXPECTED OVER THE NEXT DAY OR SO. ON THE FORECAST TRACK...THE CENTER OF EARL WILL REACH THE COAST OF NOVA SCOTIA BY LATE MORNING OR EARLY AFTERNOON TODAY.

**MAXIMUM SUSTAINED WINDS ARE NEAR 70 MPH...110 KM/HR...WITH HIGHER GUSTS. GRADUAL WEAKENING IS FORECAST DURING THE NEXT 48 HOURS. HOWEVER...EARL IS EXPECTED TO REMAIN A VERY LARGE AND STRONG EXTRATROPICAL LOW PRESSURE SYSTEM AS IT MOVES ACROSS THE CANADIAN MARITIME PROVINCES.**

**TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 205 MILES...335 KM FROM THE CENTER.**

**ESTIMATED MINIMUM CENTRAL PRESSURE IS 965 MB.**

#### **HAZARDS AFFECTING LAND**

**TROPICAL STORM CONDITIONS WILL REACH THE WARNING AREA IN DOWNEAST MAINE LATER THIS MORNING AND SPREAD INTO THE WARNING AREA IN THE CANADIAN MARITIMES BY LATE MORNING OR EARLY AFTERNOON.**

**STORM SURGE...WATER LEVELS COULD RISE BY AS MUCH AS 1 TO 3 FEET ABOVE GROUND LEVEL ALONG THE DOWNEAST COAST OF MAINE.**

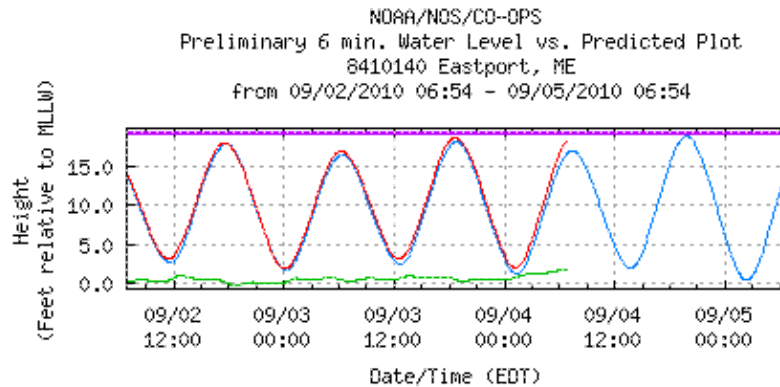
**SURF LARGE SWELLS FROM EARL WILL CONTINUE TO AFFECT THE EAST COAST OF THE UNITED STATES FROM NEW JERSEY NORTHWARD THROUGH TODAY. THESE SWELLS WILL LIKELY CAUSE DANGEROUS SURF CONDITIONS AND RIP CURRENTS.**

**FORECASTER STEWART**

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Eastport - Water Level](#), [Eastport - Winds](#), [Eastport - Barometric](#), [Eastport - Air/Water Temp](#), [Bar Harbor - Water Level](#), [Bar Harbor - Winds](#), [Bar Harbor - Barometric](#), [Bar Harbor - Air/Water Temp](#), [Wells - Water Level](#), [Wells - Winds](#), [Wells - Barometric](#), [Wells - Air/Water Temp](#), [Nantucket Island - Water Level](#), [Nantucket Island - Winds](#), [Nantucket Island - Barometric](#), [Nantucket Island - Air/Water Temp](#), [Newport - Water Level](#), [Newport - Winds](#), [Newport - Barometric](#), [Newport - Air/Water Temp](#), [New London - Water Level](#), [New London - Winds](#), [New London - Barometric](#), [New London - Air/Water Temp](#), [Bridgeport - Water Level](#), [Bridgeport - Winds](#), [Bridgeport - Barometric](#), [Bridgeport - Air/Water Temp](#), [Sandy Hook - Water Level](#), [Sandy Hook - Winds](#), [Sandy Hook - Barometric](#), [Sandy Hook - Air/Water Temp](#), [Atlantic City - Water Level](#), [Cape May - Winds](#), [Cape May - Barometric](#), [Cape May - Air/Water Temp](#), [Lewes - Water Level](#), [Lewes - Winds](#), [Lewes - Barometric](#), [Lewes - Air/Water Temp](#), [Ocean City Inlet - Water Level](#), [Ocean City Inlet - Winds](#), [Ocean City Inlet - Barometric](#), [Ocean City Inlet - Air/Water Temp](#), [Kiptopeke - Water Level](#), [Kiptopeke - Winds](#), [Kiptopeke - Air/Water Temp](#),

**Eastport, ME** - [Return to List](#)



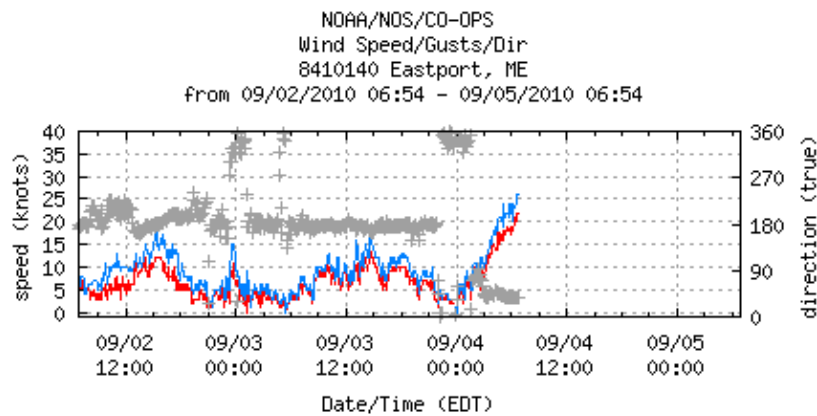
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 09/04/2010 06:42 (EDT)

Relative to **MLLW**: **Observed: 18.04 ft. Predicted: 16.36 ft. Residual: 1.68 ft.**

Historical Maximum Water Level: Jan 10 1997, 4.95 ft. above **MHHW**

**Eastport, ME** - [Return to List](#)

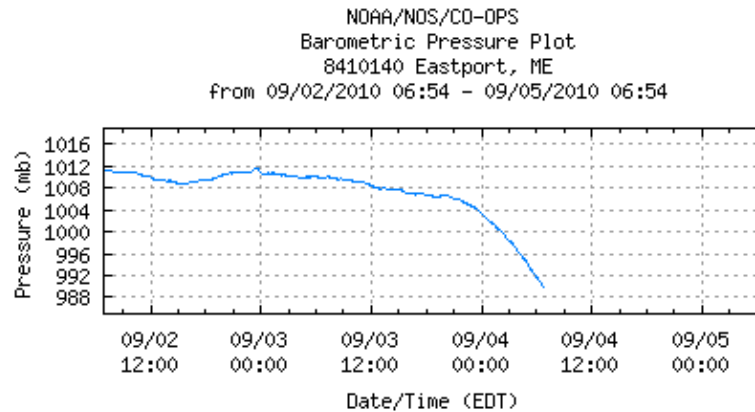


speed — gusts — direction +

Last Observed Sample: 09/04/2010 06:42 (EDT)

**Wind Speed: 22 knots Gusts: 26 knots Direction: 036° T**

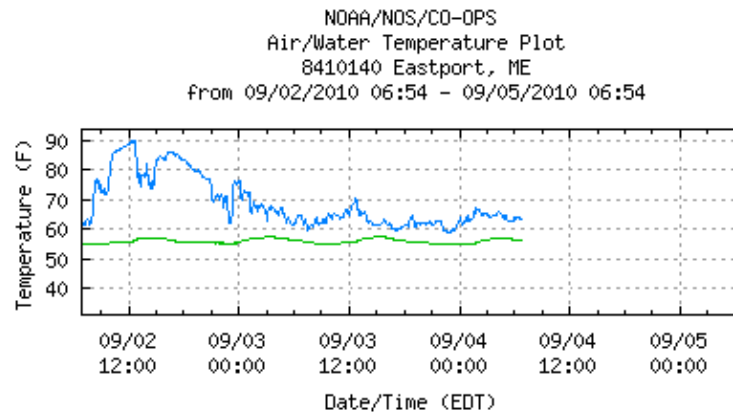
**Eastport, ME** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Barometric Pressure: 990.0 mb

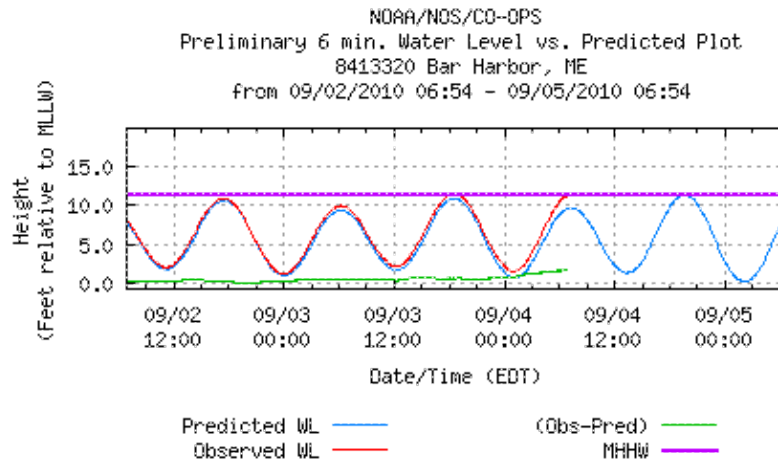
**Eastport, ME** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Water Temperature: 56.1° F Air Temperature: 63.3° F

**Bar Harbor, ME** - [Return to List](#)

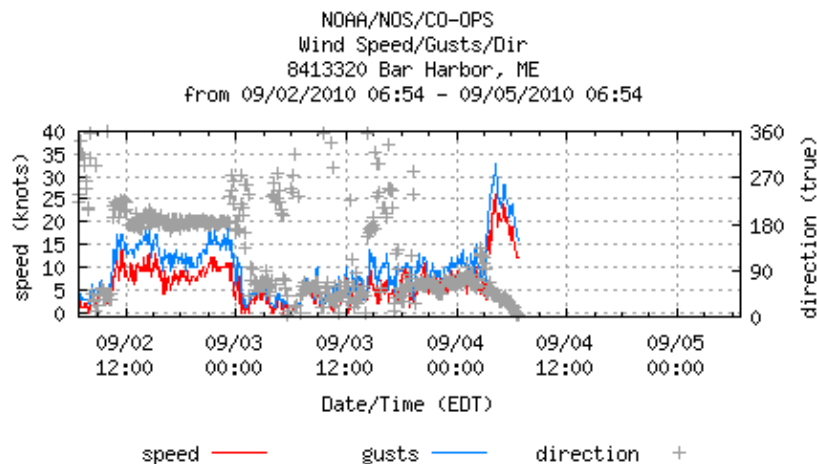


Last Observed Sample: 09/04/2010 06:42 (EDT)

Relative to **MLLW**: **Observed: 11.11 ft.** **Predicted: 9.45 ft.** **Residual: 1.66 ft.**

Historical Maximum Water Level: Feb 7 1978, 4.84 ft. above **MHHW**

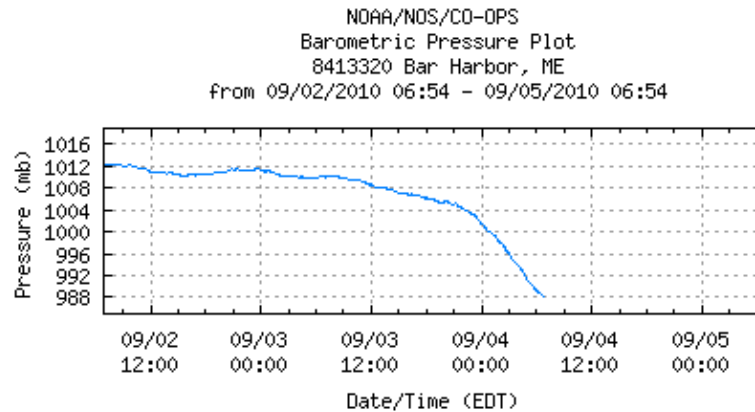
**Bar Harbor, ME** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

**Wind Speed: 12 knots** **Gusts: 16 knots** **Direction: 004° T**

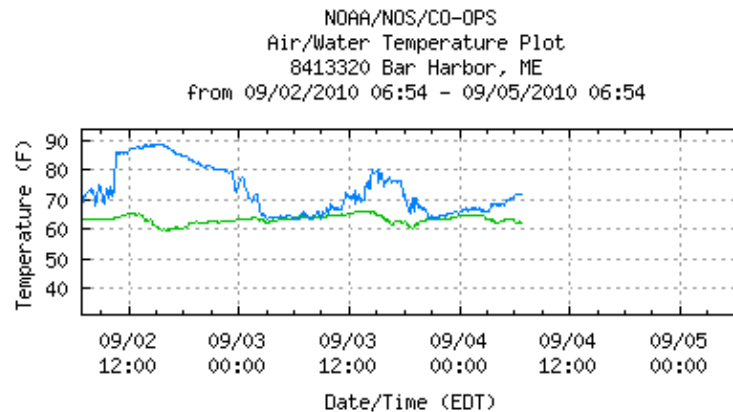
**Bar Harbor, ME** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Barometric Pressure: 988.3 mb

**Bar Harbor, ME** - [Return to List](#)

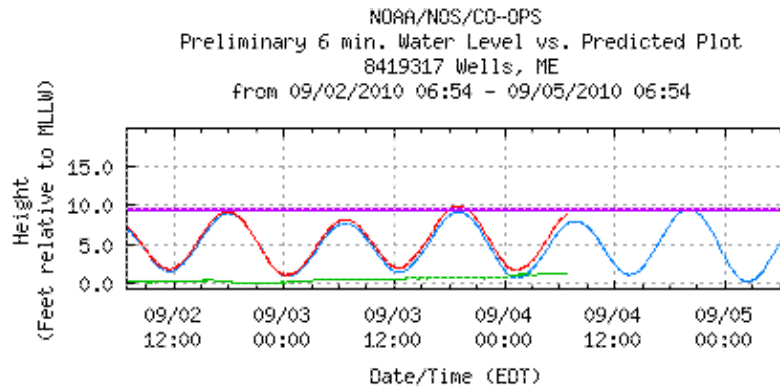


Last Observed Sample: 09/04/2010 06:42 (EDT)

Water Temperature: 62.4° F Air Temperature: 72.0° F



**Wells, ME** - [Return to List](#)



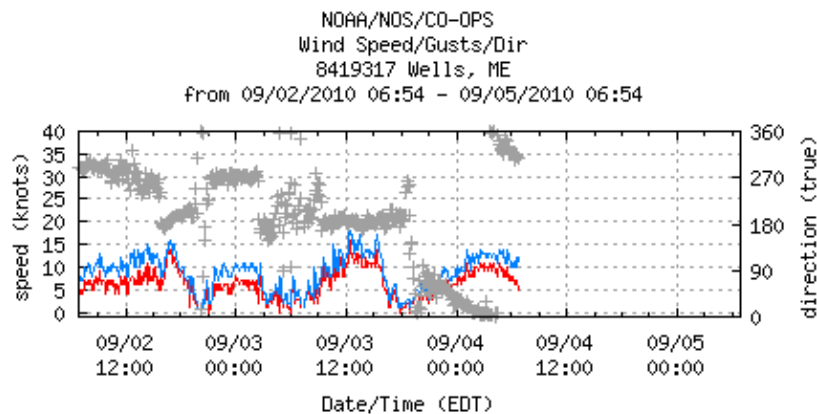
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 09/04/2010 06:42 (EDT)

Relative to **MLLW**: **Observed: 8.69 ft. Predicted: 7.47 ft. Residual: 1.22 ft.**

Historical Maximum Water Level: Apr 16 2007, 3.57 ft. above **MHHW**

**Wells, ME** - [Return to List](#)

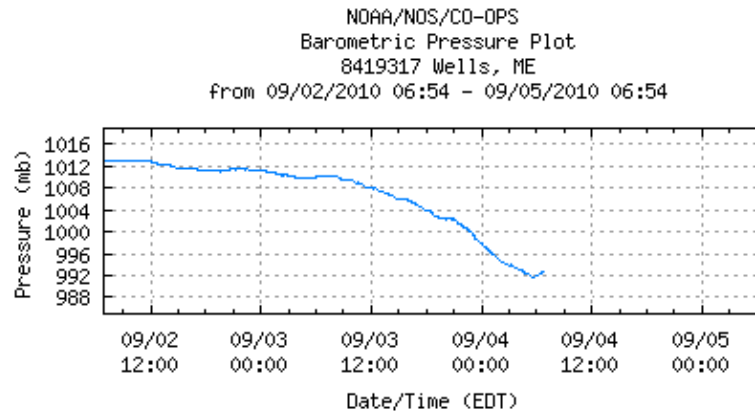


speed — gusts — direction +

Last Observed Sample: 09/04/2010 06:42 (EDT)

**Wind Speed: 5 knots Gusts: 12 knots Direction: 309° T**

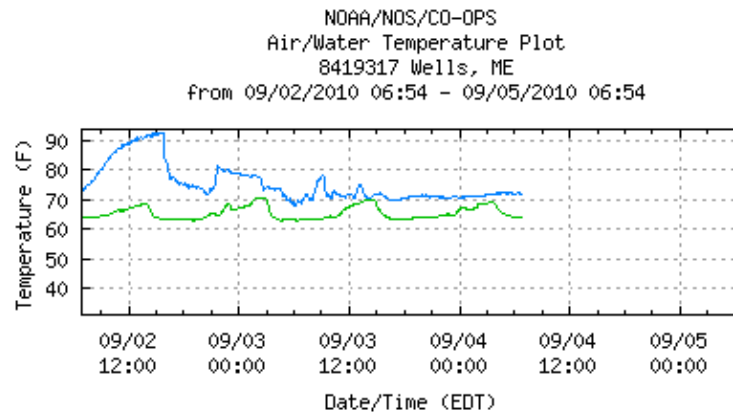
**Wells, ME** - [Return to List](#)



**Last Observed Sample: 09/04/2010 06:42 (EDT)**

**Barometric Pressure: 992.6 mb**

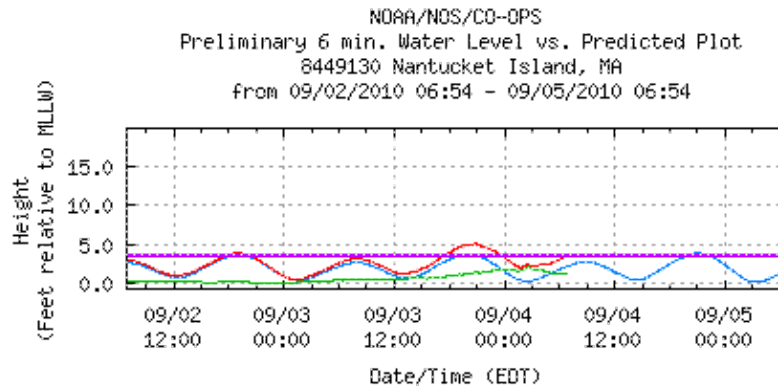
**Wells, ME** - [Return to List](#)



**Last Observed Sample: 09/04/2010 06:42 (EDT)**

**Water Temperature: 63.9° F Air Temperature: 72.0° F**

**Nantucket Island, MA** - [Return to List](#)

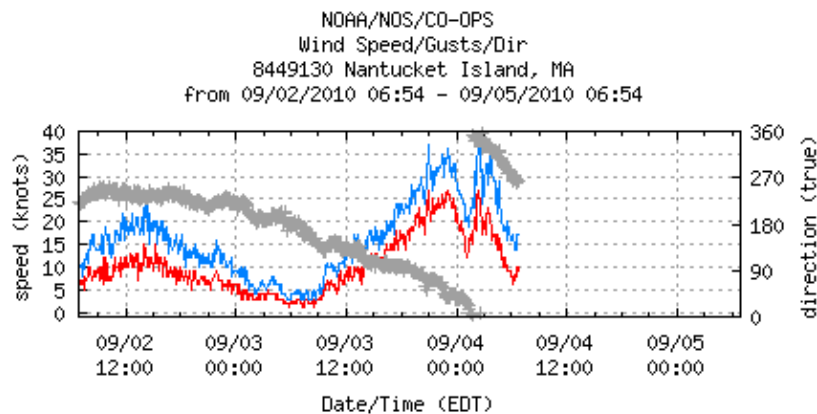


Last Observed Sample: 09/04/2010 06:42 (EDT)

Relative to **MLLW**: **Observed: 3.43 ft.** **Predicted: 2.11 ft.** **Residual: 1.32 ft.**

Historical Maximum Water Level: Oct 30 1991, 4.29 ft. above **MHHW**

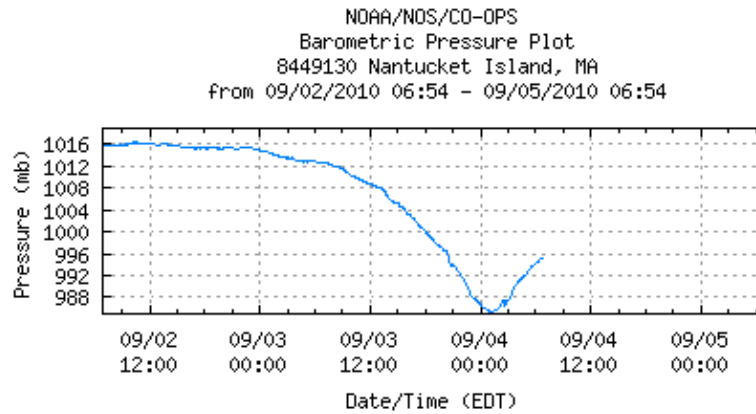
**Nantucket Island, MA** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

**Wind Speed: 10 knots** **Gusts: 17 knots** **Direction: 262° T**

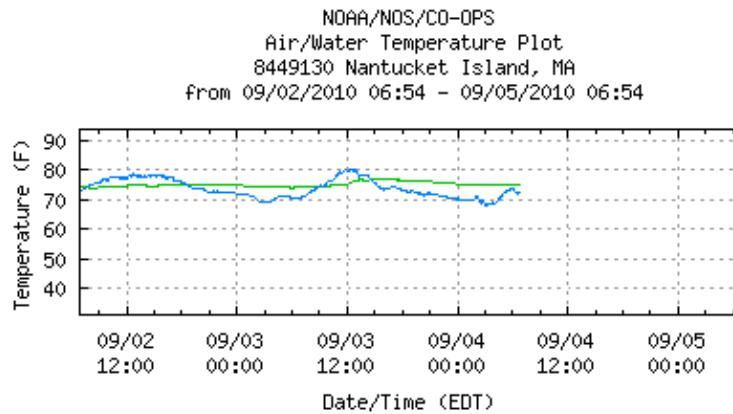
**Nantucket Island, MA** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Barometric Pressure: 995.3 mb

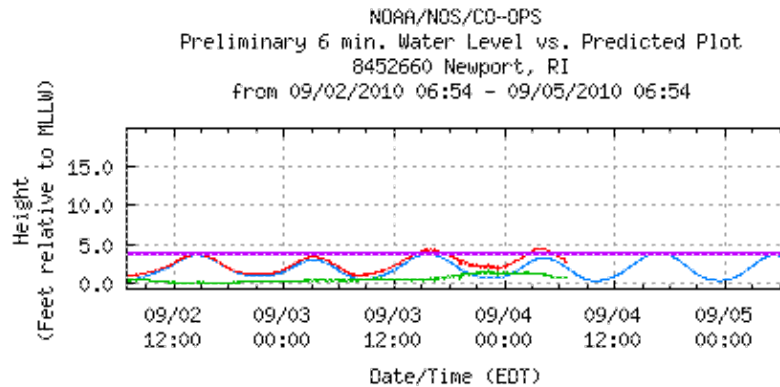
**Nantucket Island, MA** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Water Temperature: 74.8° F Air Temperature: 72.3° F

**Newport, RI** - [Return to List](#)



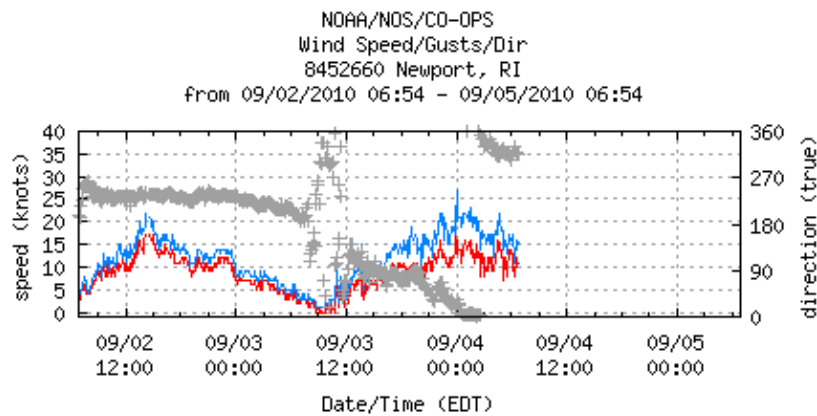
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 09/04/2010 06:42 (EDT)

Relative to **MLLW**: **Observed: 2.78 ft. Predicted: 2.05 ft. Residual: 0.73 ft.**

Historical Maximum Water Level: Sep 21 1938, 9.46 ft. above **MHHW**

**Newport, RI** - [Return to List](#)

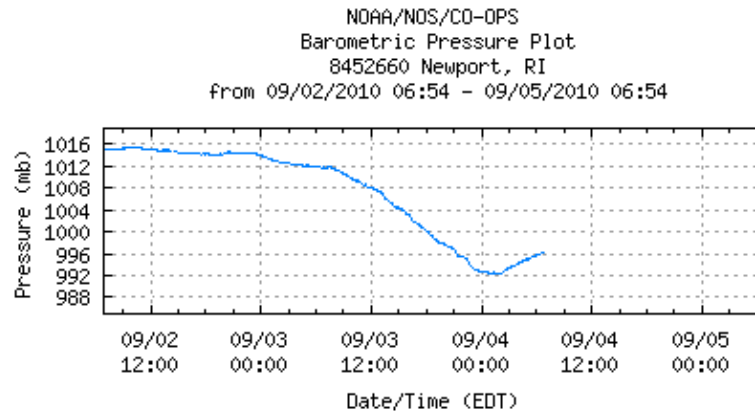


speed — gusts — direction +

Last Observed Sample: 09/04/2010 06:42 (EDT)

**Wind Speed: 11 knots Gusts: 15 knots Direction: 314° T**

**Newport, RI** - [Return to List](#)

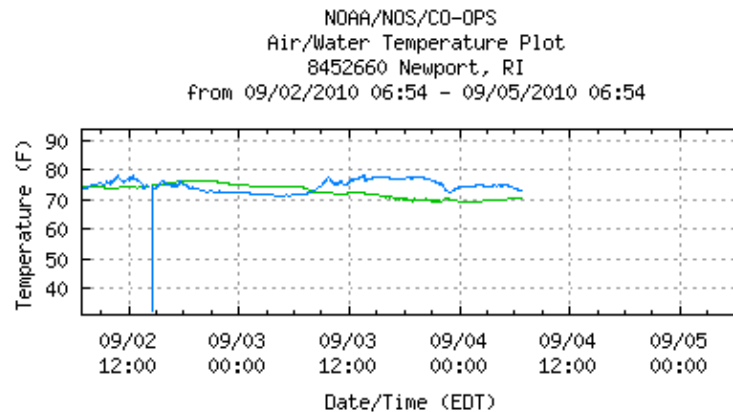


barometric pressure —

**Last Observed Sample: 09/04/2010 06:42 (EDT)**

**Barometric Pressure: 996.3 mb**

**Newport, RI** - [Return to List](#)

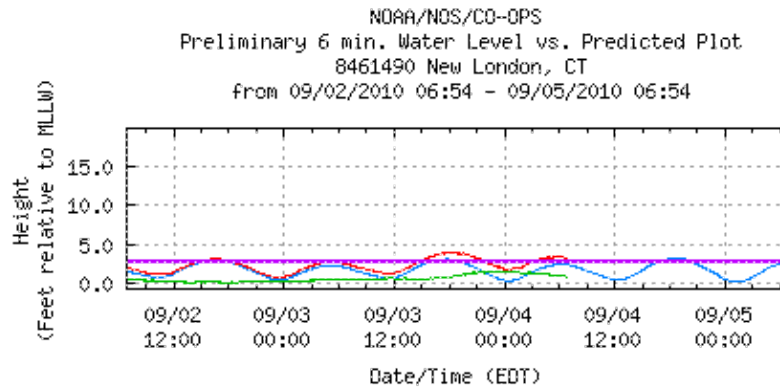


water temp. — air temp —

**Last Observed Sample: 09/04/2010 06:42 (EDT)**

**Water Temperature: 70.4° F Air Temperature: 73.2° F**

**New London, CT** - [Return to List](#)

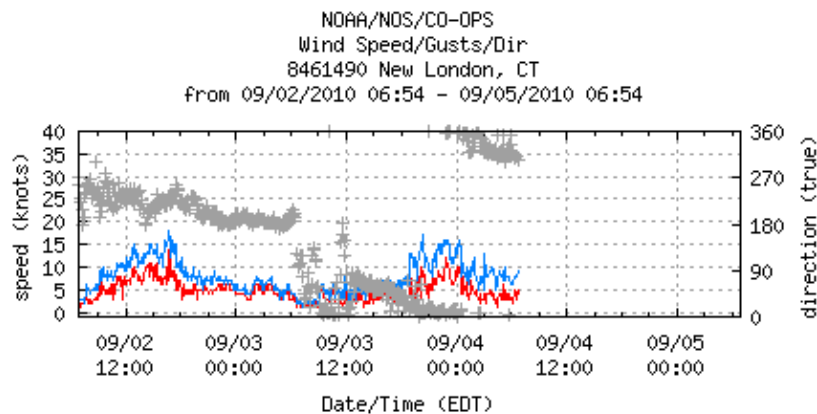


Last Observed Sample: 09/04/2010 06:42 (EDT)

Relative to **MLLW**: **Observed: 3.27 ft. Predicted: 2.40 ft. Residual: 0.87 ft.**

Historical Maximum Water Level: Sep 21 1938, 7.53 ft. above **MHHW**

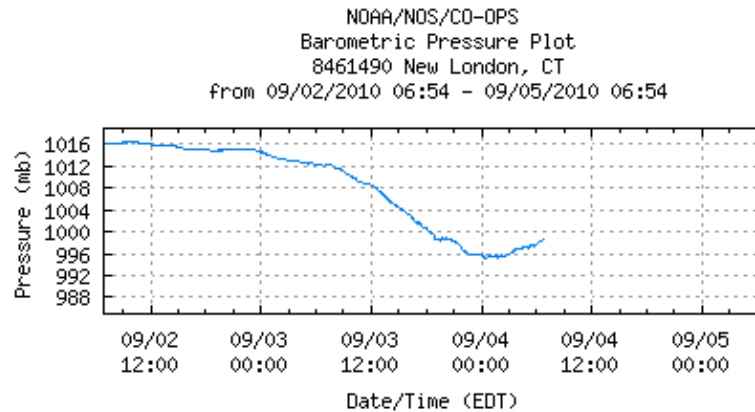
**New London, CT** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

**Wind Speed: 5 knots Gusts: 9 knots Direction: 304° T**

**New London, CT** - [Return to List](#)

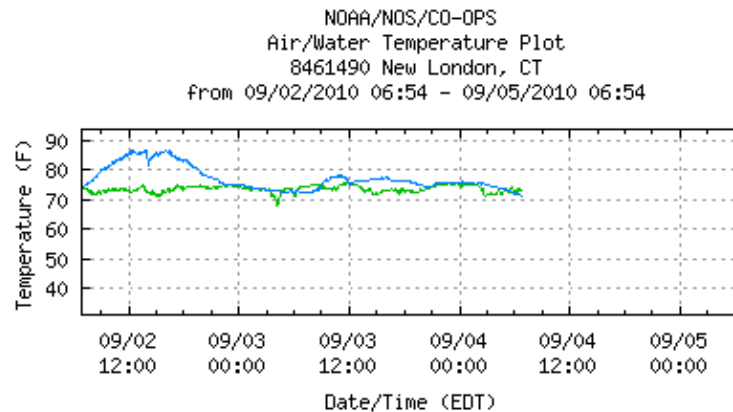


barometric pressure —

**Last Observed Sample: 09/04/2010 06:42 (EDT)**

**Barometric Pressure: 998.5 mb**

**New London, CT** - [Return to List](#)



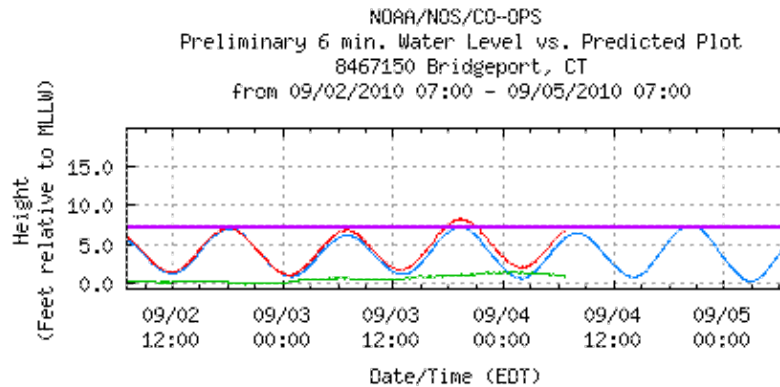
water temp. — air temp —

**Last Observed Sample: 09/04/2010 06:42 (EDT)**

**Water Temperature: 73.2° F Air Temperature: 71.4° F**



**Bridgeport, CT** - [Return to List](#)

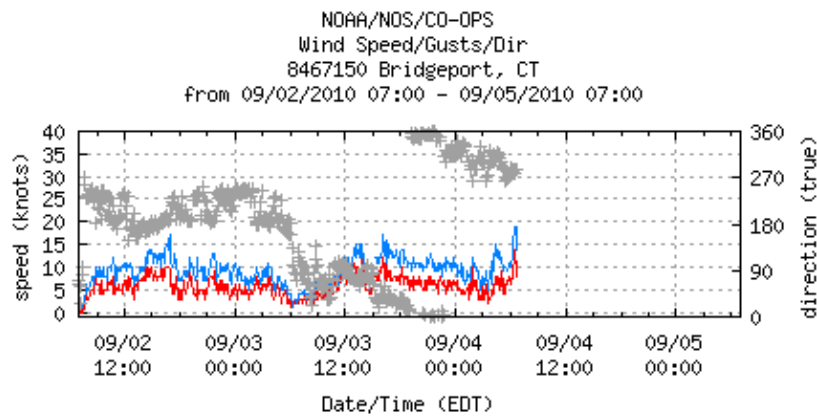


Last Observed Sample: 09/04/2010 06:42 (EDT)

Relative to **MLLW**: **Observed: 6.62 ft.** **Predicted: 5.76 ft.** **Residual: 0.86 ft.**

Historical Maximum Water Level: Sep 21 1938, 4.95 ft. above **MHHW**

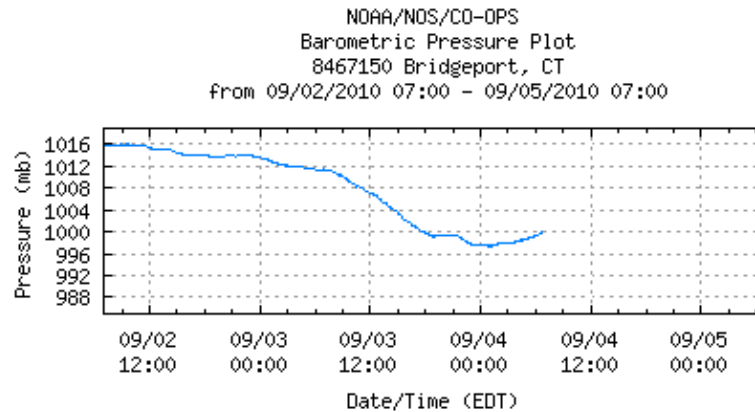
**Bridgeport, CT** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

**Wind Speed: 8 knots** **Gusts: 14 knots** **Direction: 286° T**

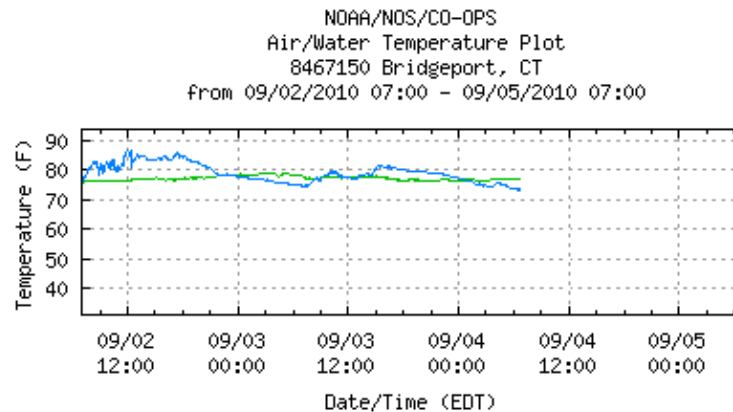
**Bridgeport, CT** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Barometric Pressure: 1000.0 mb

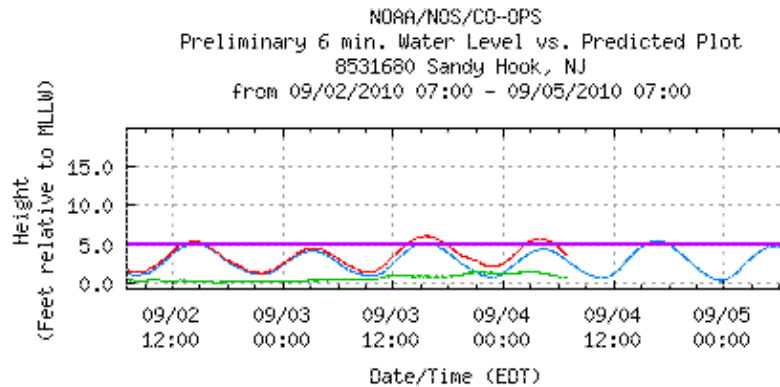
**Bridgeport, CT** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Water Temperature: 76.8° F Air Temperature: 73.6° F

**Sandy Hook, NJ** - [Return to List](#)



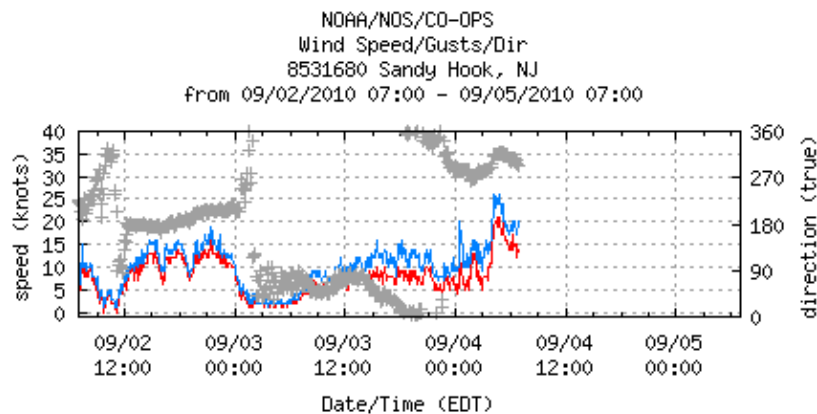
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 09/04/2010 06:48 (EDT)

Relative to **MLLW**: **Observed: 3.70 ft. Predicted: 3.00 ft. Residual: 0.70 ft.**

Historical Maximum Water Level: Sep 12 1960, 4.86 ft. above **MHHW**

**Sandy Hook, NJ** - [Return to List](#)

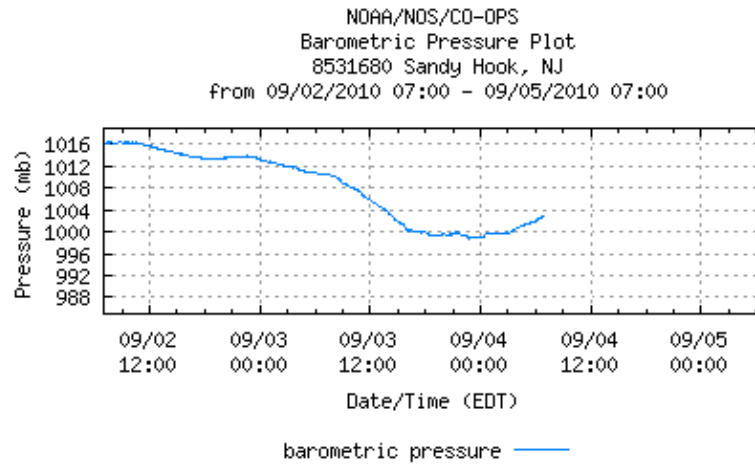


speed — gusts — direction +

Last Observed Sample: 09/04/2010 06:48 (EDT)

**Wind Speed: 14 knots Gusts: 20 knots Direction: 294° T**

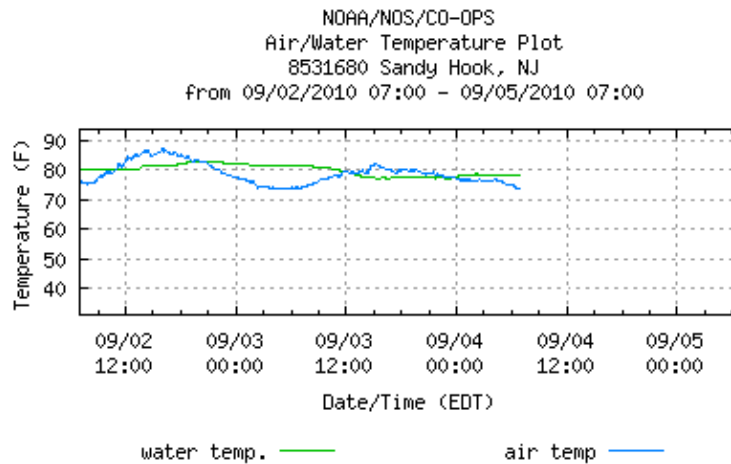
**Sandy Hook, NJ** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:48 (EDT)

Barometric Pressure: 1002.8 mb

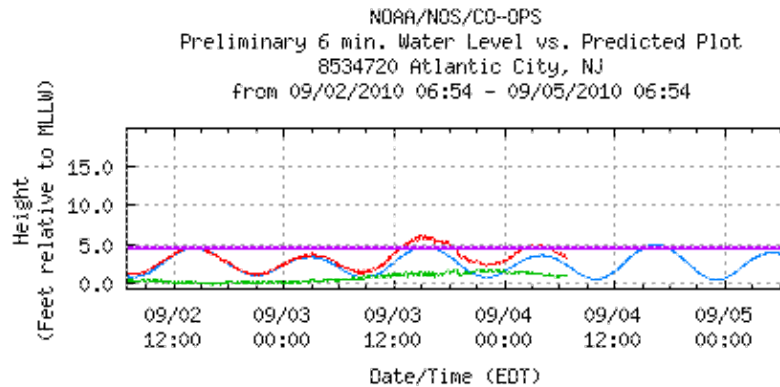
**Sandy Hook, NJ** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:48 (EDT)

Water Temperature: 78.3° F Air Temperature: 73.8° F

**Atlantic City, NJ** - [Return to List](#)

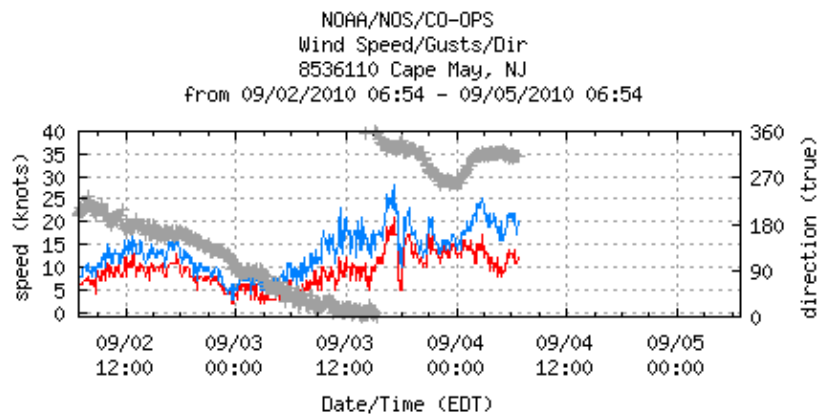


Last Observed Sample: 09/04/2010 06:42 (EDT)

Relative to **MLLW**: **Observed: 3.24 ft. Predicted: 2.36 ft. Residual: 0.88 ft.**

Historical Maximum Water Level: Dec 11 1992, 4.38 ft. above **MHHW**

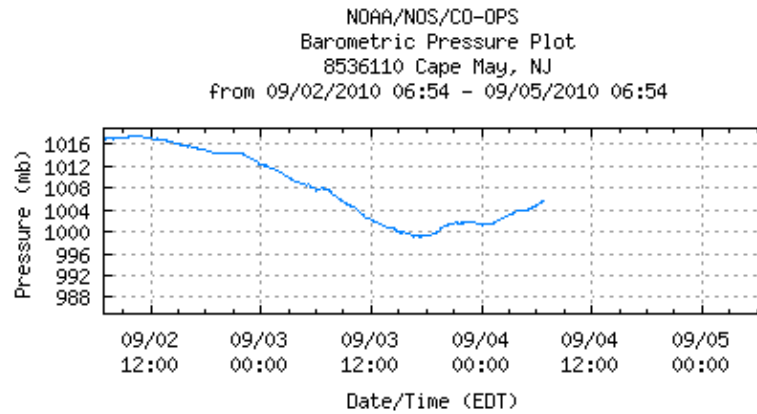
**Cape May, NJ** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

**Wind Speed: 12 knots Gusts: 20 knots Direction: 310° T**

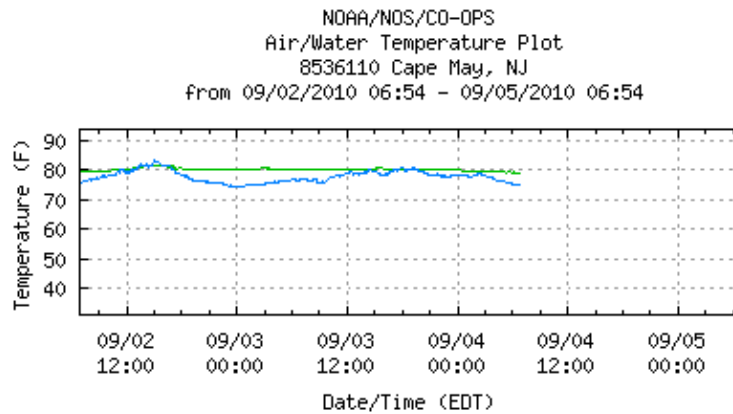
**Cape May, NJ** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Barometric Pressure: 1005.6 mb

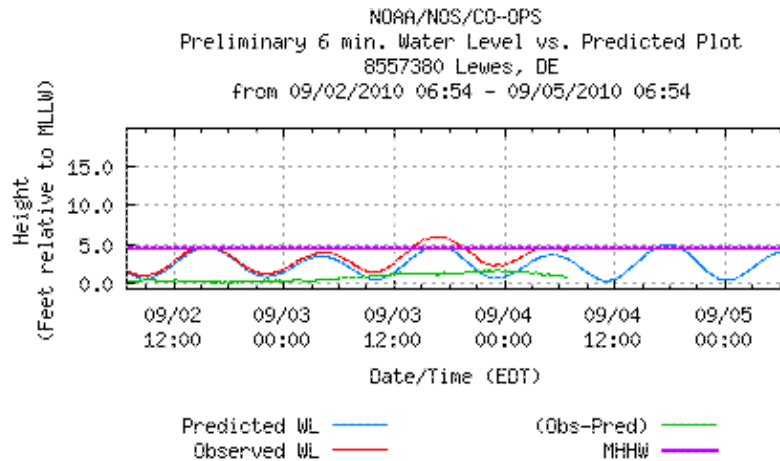
**Cape May, NJ** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Water Temperature: 79.3° F Air Temperature: 74.8° F

**Lewes, DE** - [Return to List](#)

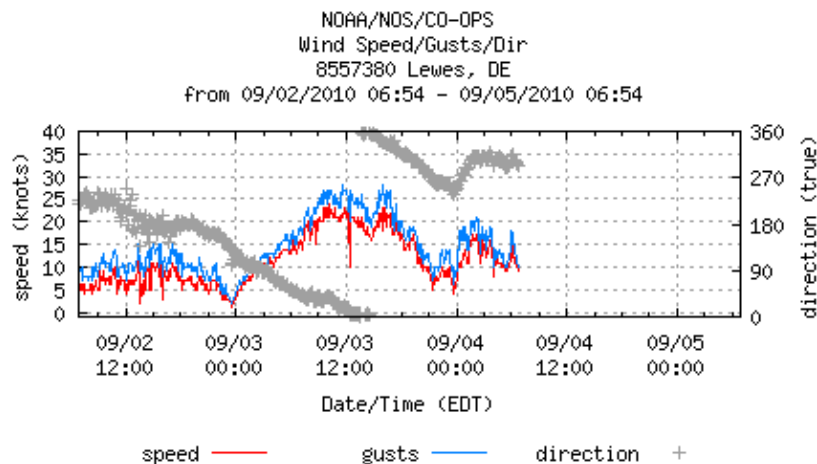


Last Observed Sample: 09/04/2010 06:42 (EDT)

Relative to **MLLW**: **Observed: 4.07 ft. Predicted: 3.21 ft. Residual: 0.86 ft.**

Historical Maximum Water Level: Mar 6 1962, 4.57 ft. above **MHHW**

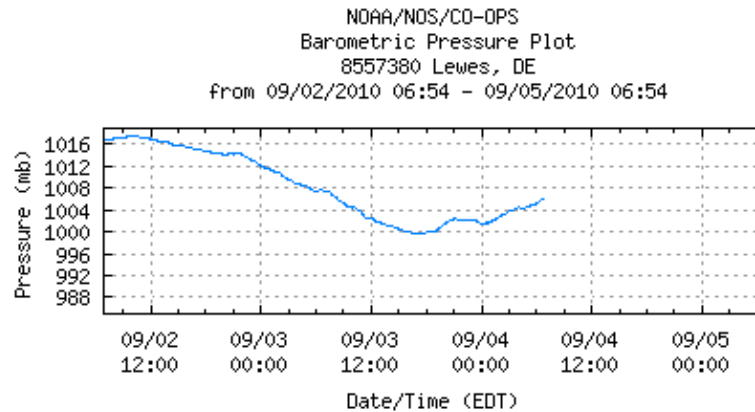
**Lewes, DE** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

**Wind Speed: 9 knots Gusts: 10 knots Direction: 292° T**

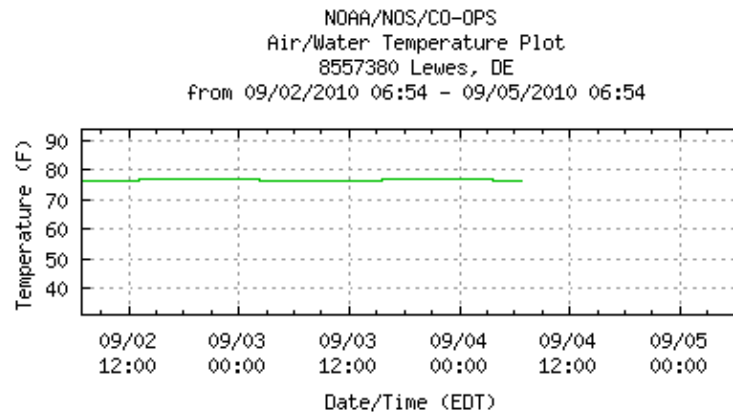
**Lewes, DE** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Barometric Pressure: 1006.0 mb

**Lewes, DE** - [Return to List](#)

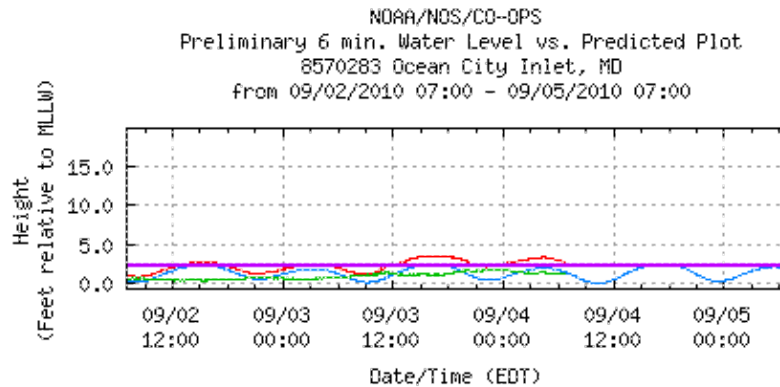


Last Observed Sample: 09/02/2010 06:54 (EDT)

Water Temperature: 76.7° F Air Temperature: n/a



**Ocean City Inlet, MD** - [Return to List](#)



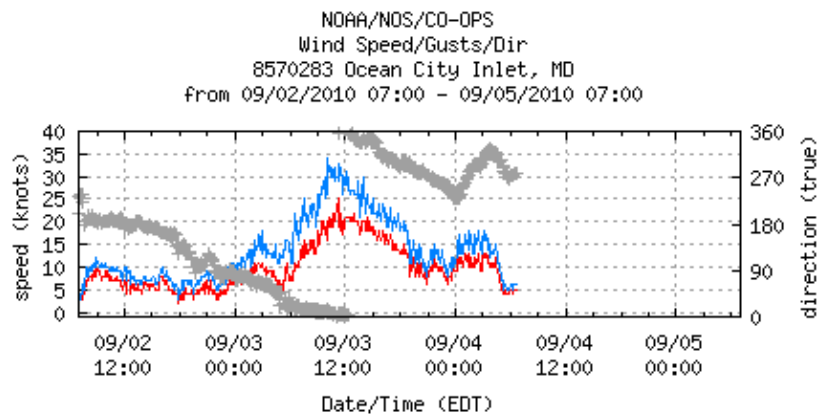
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 09/04/2010 06:42 (EDT)

Relative to **MLLW**: **Observed: 2.56 ft. Predicted: 1.43 ft. Residual: 1.13 ft.**

Historical Maximum Water Level: Feb 5 1998, 3.6 ft. above **MHHW**

**Ocean City Inlet, MD** - [Return to List](#)

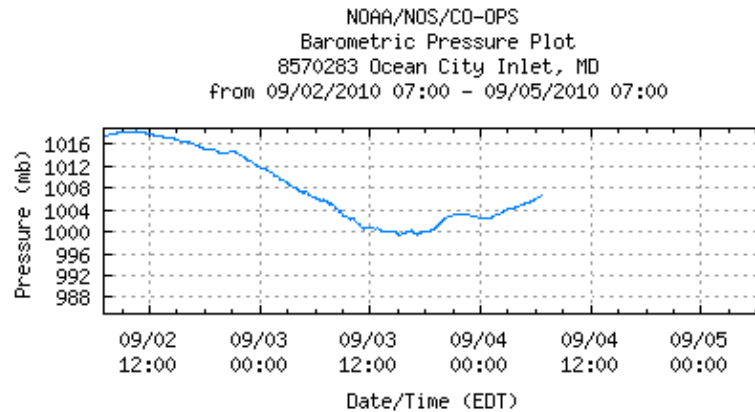


speed — gusts — direction +

Last Observed Sample: 09/04/2010 06:42 (EDT)

**Wind Speed: 5 knots Gusts: 6 knots Direction: 279° T**

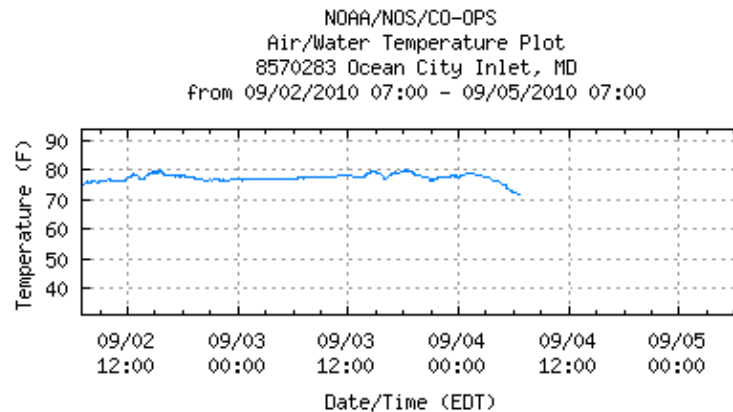
**Ocean City Inlet, MD** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Barometric Pressure: 1006.6 mb

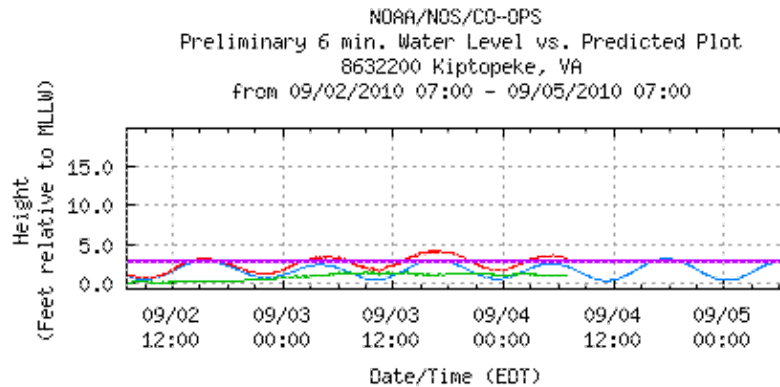
**Ocean City Inlet, MD** - [Return to List](#)



Last Observed Sample: 09/04/2010 06:42 (EDT)

Water Temperature: n/a Air Temperature: 71.8° F

**Kiptopeke, VA** - [Return to List](#)

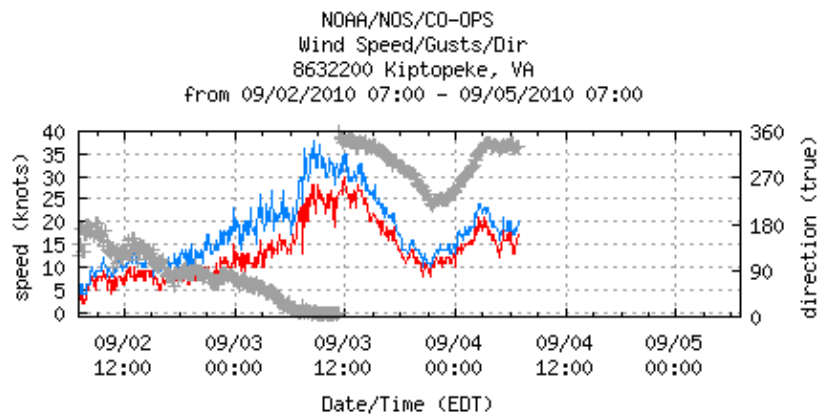


Last Observed Sample: 09/04/2010 06:48 (EDT)

Relative to **MLLW**: **Observed: 3.25 ft.** **Predicted: 2.19 ft.** **Residual: 1.06 ft.**

Historical Maximum Water Level: Mar 8 1962, 4.13 ft. above **MHHW**

**Kiptopeke, VA** - [Return to List](#)

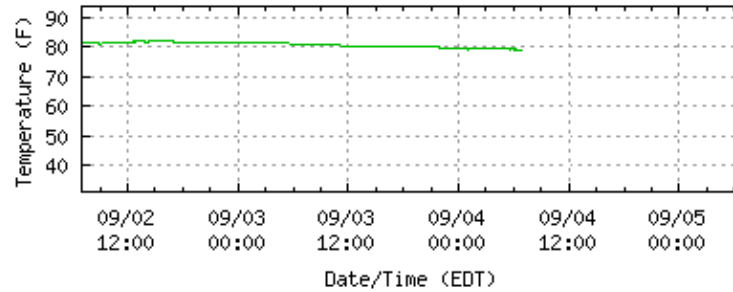


Last Observed Sample: 09/04/2010 06:48 (EDT)

**Wind Speed: 17 knots** **Gusts: 20 knots** **Direction: 331° T**

**Kiptopeke, VA** - [Return to List](#)

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
8632200 Kiptopeke, VA  
from 09/02/2010 07:00 - 09/05/2010 07:00



water temp. — air temp. —

**Last Observed Sample: 09/02/2010 07:00 (EDT)**

**Water Temperature: 81.8° F Air Temperature: n/a**

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
National Oceanic and Atmospheric Administration | U.S. Department of Commerce